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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/688,795 10/17/2003		Gareth Copping	3912.00002	9738		
21615	7590	02/01/2005		EXAM	EXAMINER	
CHRISTOP		MAIORANA, P.C.	JIANG, CH	JIANG, CHEN WEN		
ST. CLAIR SHORES, MI 48080				ART UNIT	PAPER NUMBER	
				3744		

DATE MAILED: 02/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		A1:4: A1-	A 1: 4/->					
		Application No.	Applicant(s)					
	Office Action Summany	10/688,795	COPPING, GARE	:TH				
	Office Action Summary	Examiner	Art Unit					
		Chen-Wen Jiang	3744					
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover she	et with the correspondence ad	ldress				
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period into the reply within the set or extended period for reply will, by statuting the reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, m ly within the statutory minimum will apply and will expire SIX (6) e, cause the application to beco	nay a reply be timely filed of thirty (30) days will be considered timel MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).					
Status								
1)⊠	Responsive to communication(s) filed on 17 (October 2003.						
2a)□	This action is FINAL . 2b)⊠ Thi	s action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	4) ☐ Claim(s) 1-36 is/are pending in the application. 4a) Of the above claim(s) 10-32 and 34-36 is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 and 33 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
10)⊠	The specification is objected to by the Examina The drawing(s) filed on <u>17 October 2003</u> is/ard Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examination.	e: a) accepted or b) e drawing(s) be held in ab ction is required if the dra	neyance. See 37 CFR 1.85(a). wing(s) is objected to. See 37 C	FR 1.121(d).				
Priority (under 35 U.S.C. § 119							
a) ⁽	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority document Certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the Copies	nts have been received nts have been received prity documents have to nu (PCT Rule 17.2(a)).	in Application No been received in this National	Stage				
2) Notice 3) Infor	ot(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 or No(s)/Mail Date <u>20040129</u> .	Pape 5) D Notic	view Summary (PTO-413) r No(s)/Mail Date e of Informal Patent Application (PTo r:	O-152)				

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group II (claims 1-9 and 33) in the reply filed on 12/10/2004 is acknowledged. The traversal is on the ground(s) that Groups I-VI are not separate groups. This is not found persuasive because each group is patentably distinct and has a serious burden on the Examiner as stated in the previous Office Action.

The requirement is still deemed proper and is therefore made FINAL.

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: Reference number "V9" is not in the drawing. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Application/Control Number: 10/688,795 Page 3

Art Unit: 3744

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1,2,3,4,5,8,9 and 33 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Ritson et al. (U.S. Patent Number 3,913,581).

Ritson et al. disclose a cryogenic apparatus. Referring to Figs. 6-7, the apparatus comprises valves V3,V4,V5, valve controller, cooling mode and backflushing mode. When a three-position valve is used, the first conduit when a warming mode is selected, may be either closed, open to atmosphere and shut off from the source, or remain connected to the source. If open to atmosphere, reverse flow through the restricted orifice being only for such time that the valve is maintained in its second position. It is therefore within the scope of the invention to connect the first conduit to atmosphere by the three-position valve when in its second position particularly when delay means are incorporated which ensure such connection holds for only a brief period. Such momentary reversal of gas flow is advantageous in that contaminants may be flushed out of the first conduit. In the third position, the three position valve connects at least the first conduit of the first and second conduits to the exhaust passage (claim 8). Under the principals of inherency, if a prior art device, in its normal and usual operation, would necessarily perform the method claimed, then the method claimed will be considered to be anticipated by the prior art device. When the prior art device is the same as a device described in the specification

Application/Control Number: 10/688,795 Page 4

Art Unit: 3744

for carrying out the claimed method, it can be assumed the device will inherently perform the claimed process. *Ir re King*, 801 F.2d 1324, 231 USPQ 136 (Fed. Cir. 1986).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ritson et al. (U.S. Patent Number 3,913,581).

Ritson et al. discloses the invention substantially as claimed. However, Figs. 6-7 do not disclose supplying refrigerant through the first conduit and the cooling device and the second conduit during the third mode. Fig. 8 discloses supplying refrigerant through the first conduit and the cooling device and the second conduit during the third mode. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the apparatus of Figs. 6-7 with a supplying refrigerant through the first conduit and the cooling device and the second conduit during the third mode in view of Fig. 8.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wallach (U.S. Patent Number 4,018,227) is made of record as relevant prior art.

Art Unit: 3744

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chen-Wen Jiang whose telephone number is (571) 272-4809. The examiner can normally be reached on Tuesday-Friday from 8:00 to 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel can be reached on (571) 272-4808. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chen-Wen Jiang Primary Examiner

